

Fig. 1A.

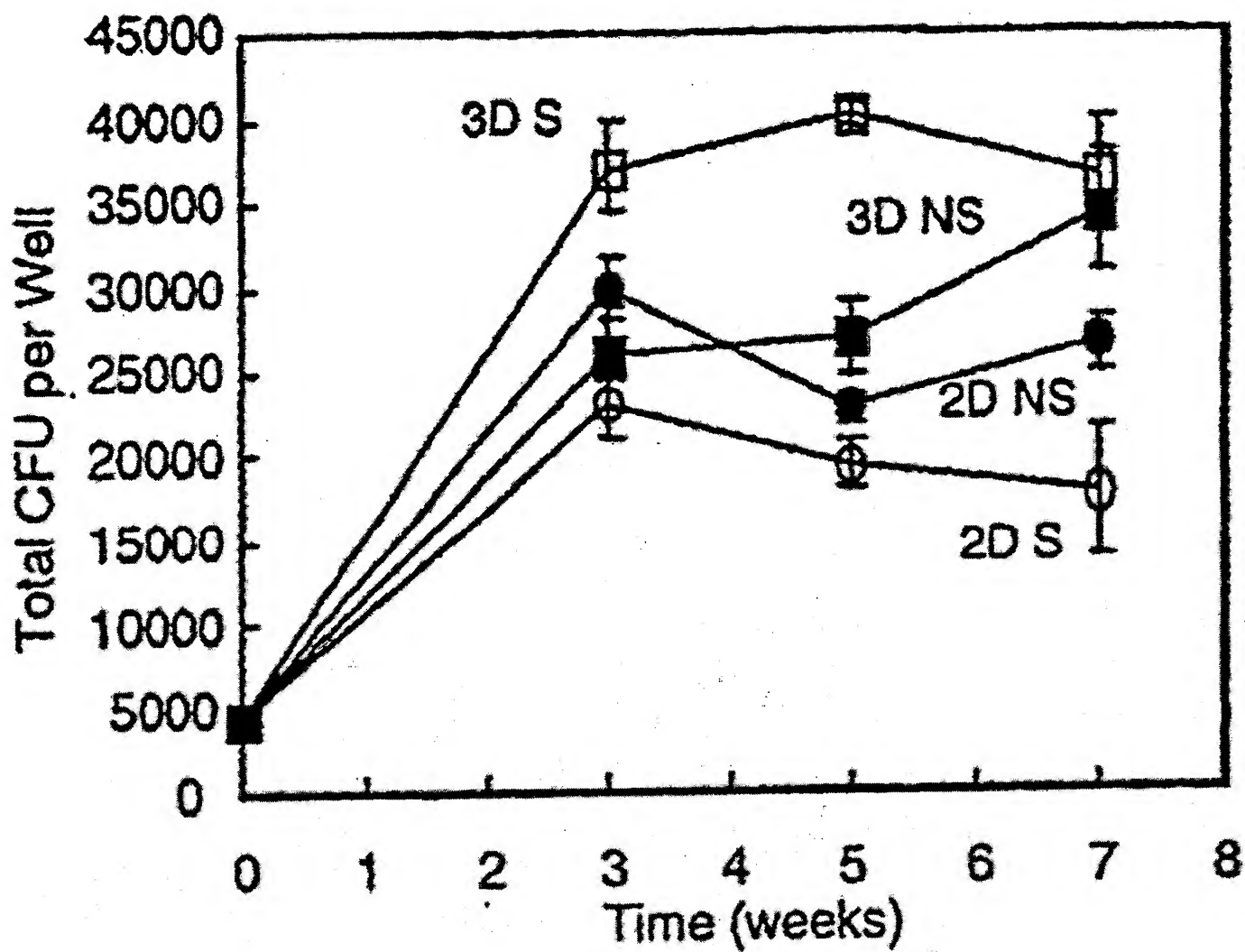


Fig. 1B.

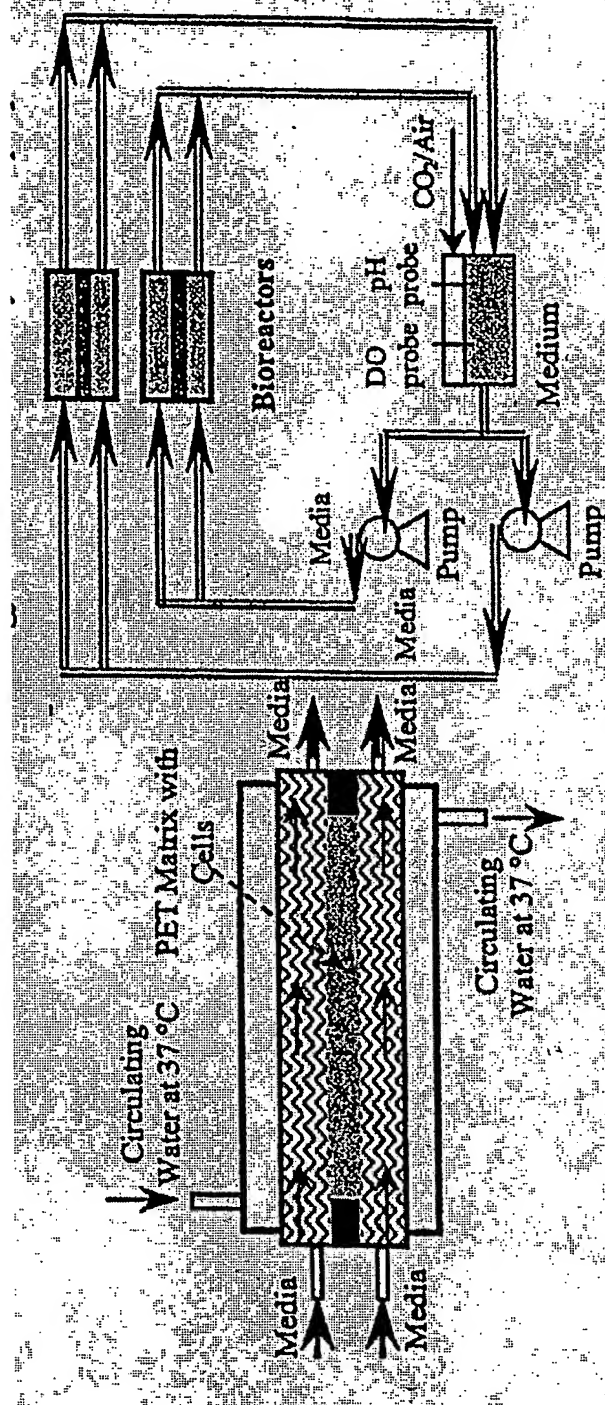
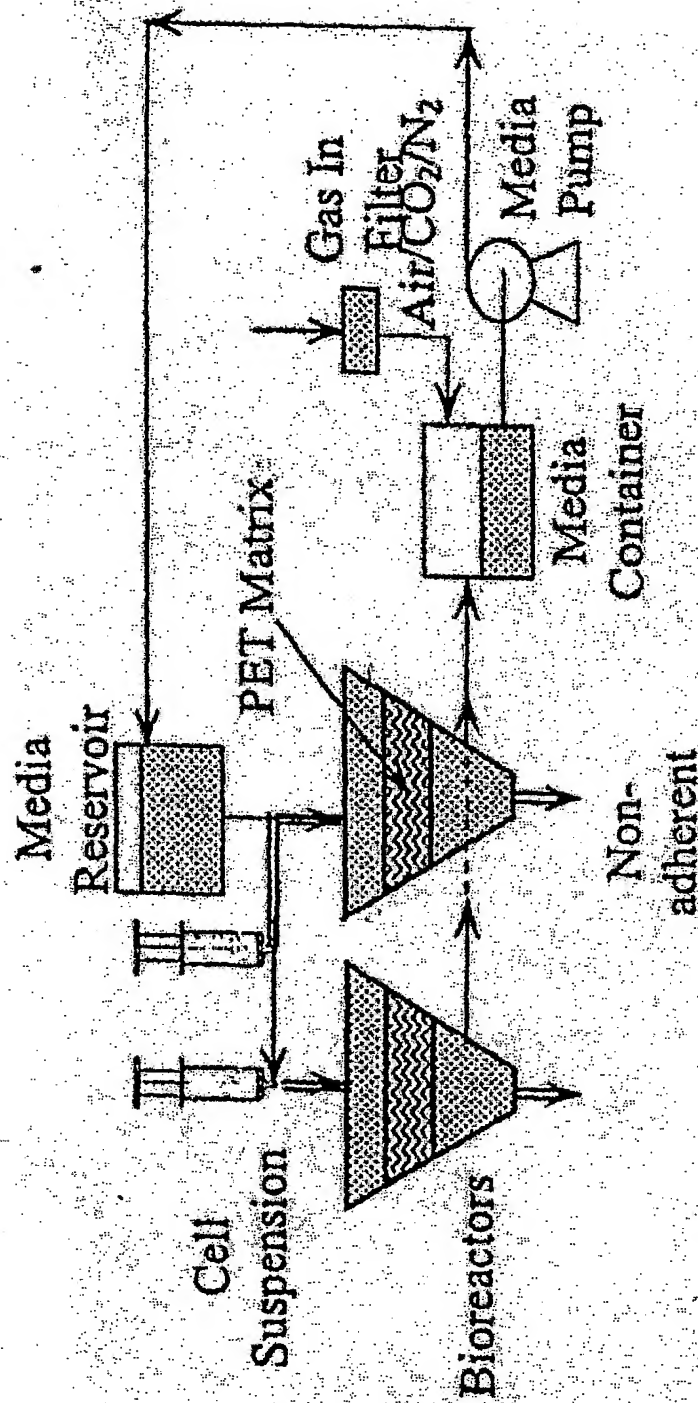


Fig. 2.



Perfusion bioreactor system integrates dynamic seeding and culturing in the same device. Cell suspension will be mixed with media and perfused through the matrix. Periodic media flow will be applied to support cell growth and remove non-adherent cells and metabolites.

Fig. 3.

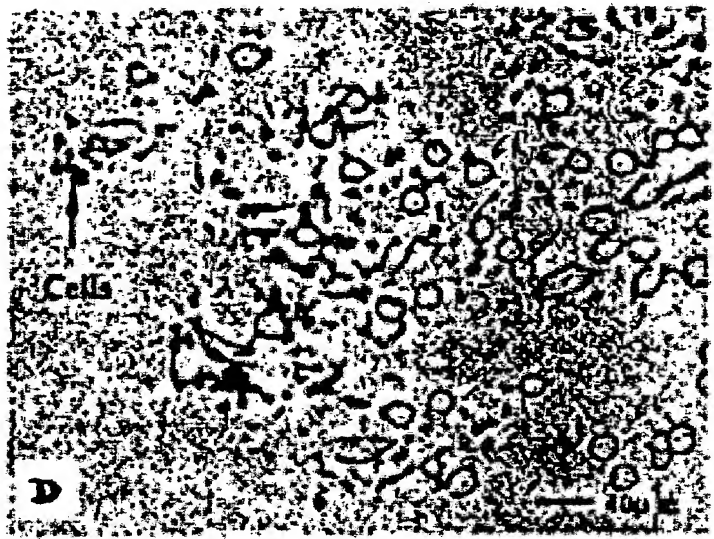


Fig. 4.

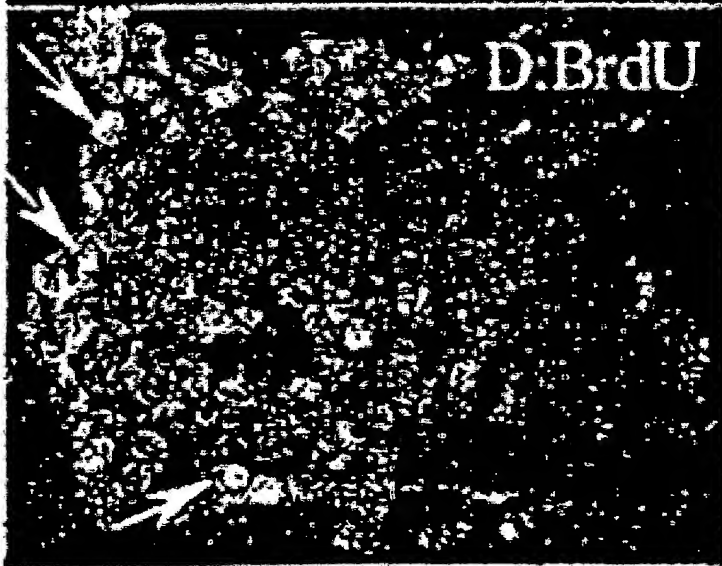
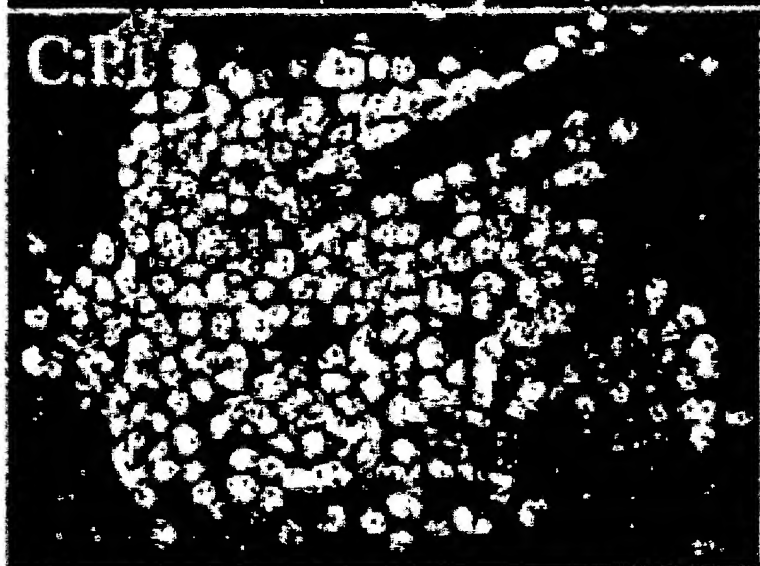
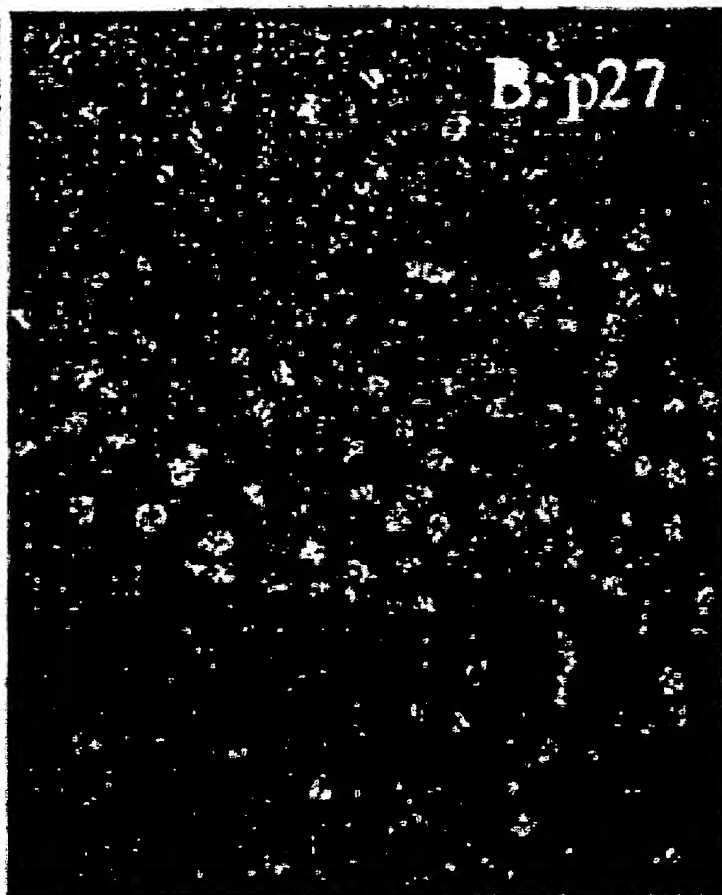


Fig. 5.

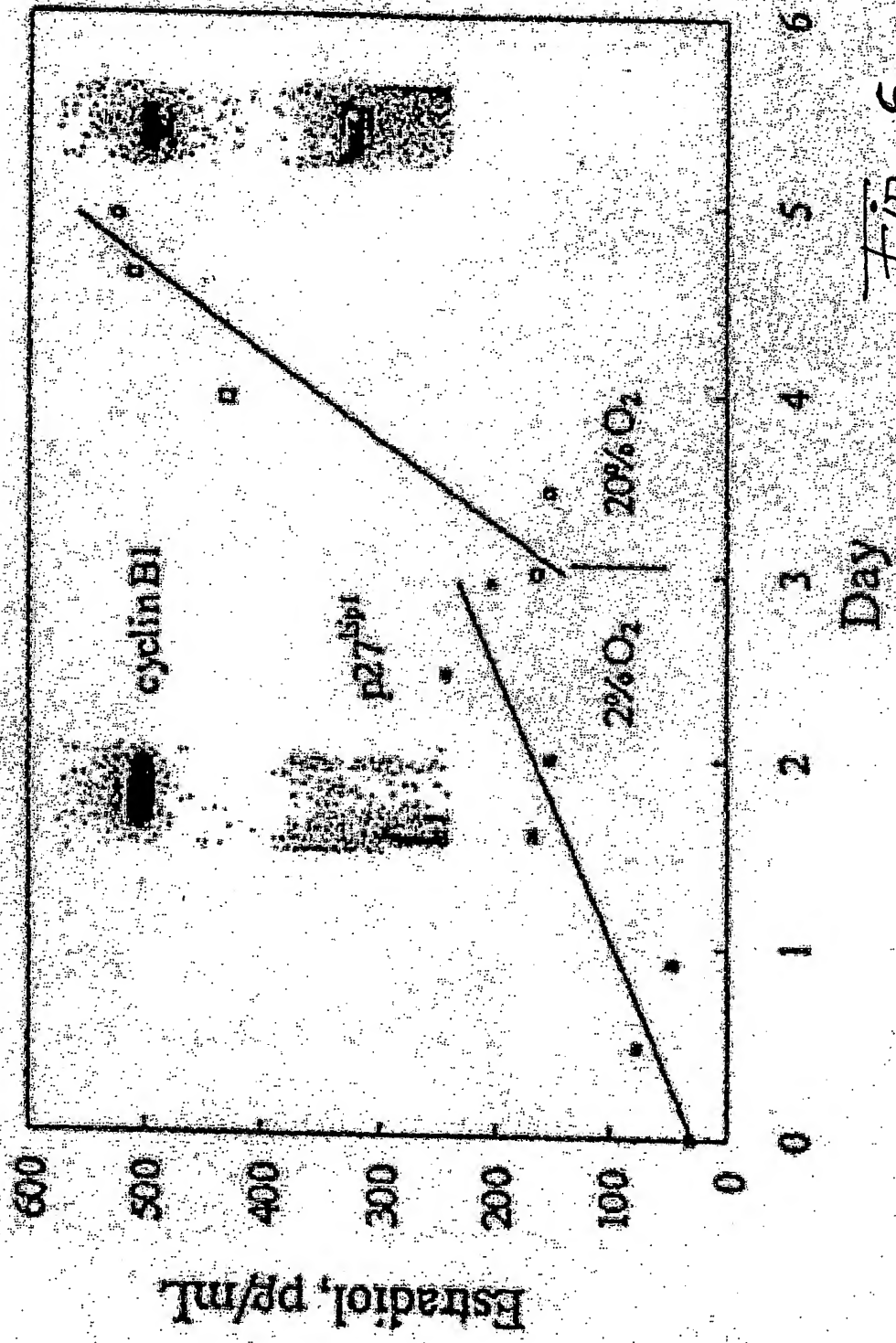


Fig. 6.

Flow Chart of Perfusion Bioreactor System

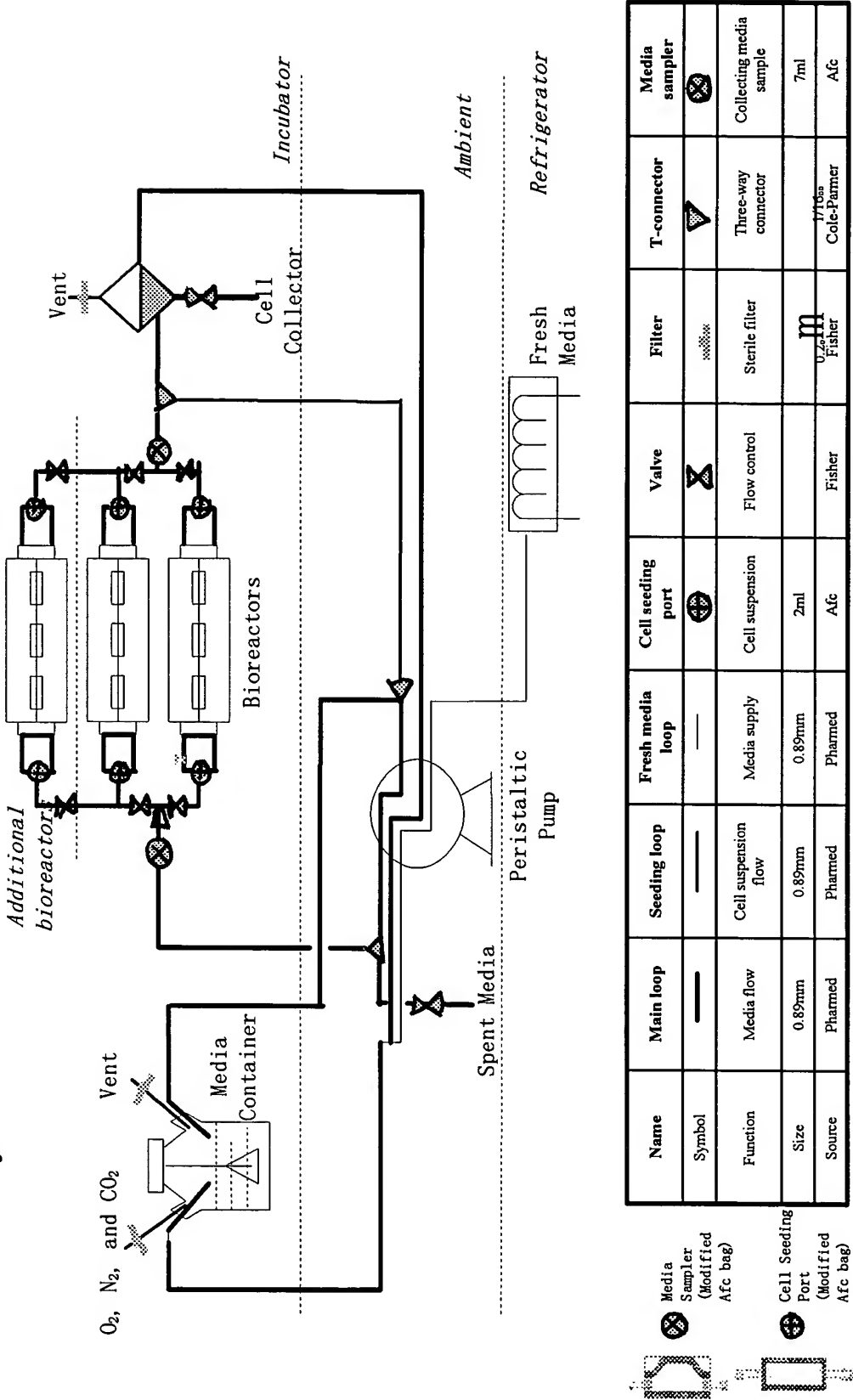


Fig. 7.

MSCs Depth Filtration in the Perfusion Bioreactor System

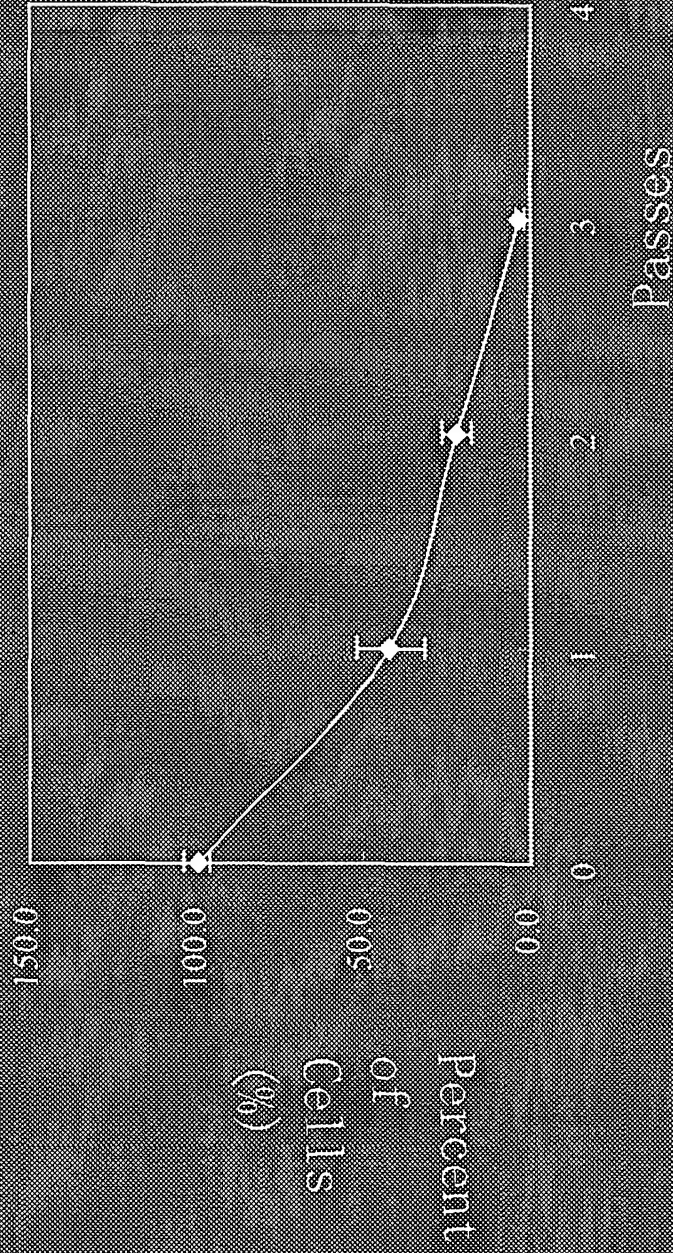


Fig. 8.

MSCs Distribution in PET Matrices

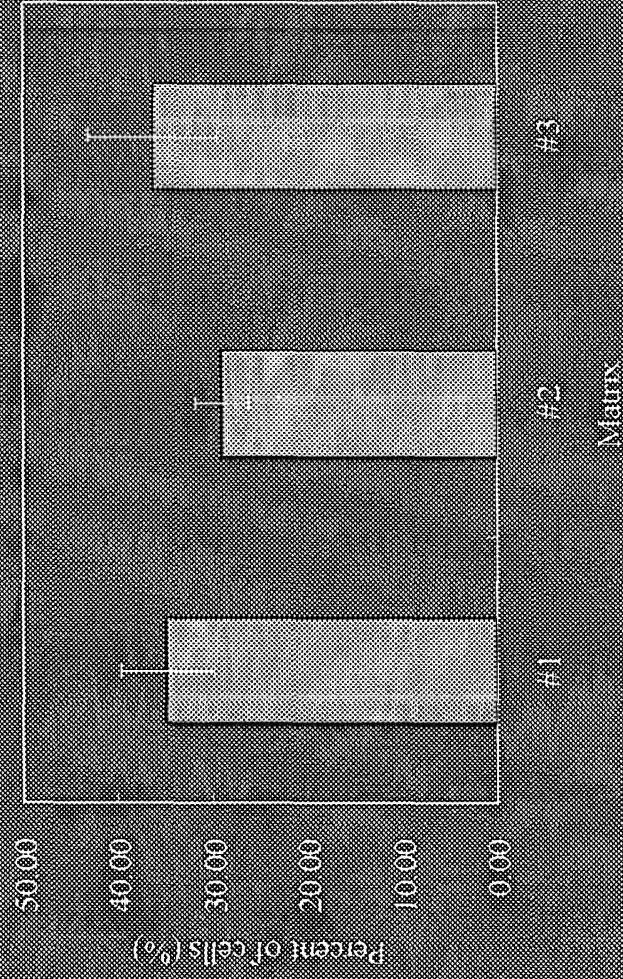


Fig. 9.

MSCs Distribution in PET Matrices

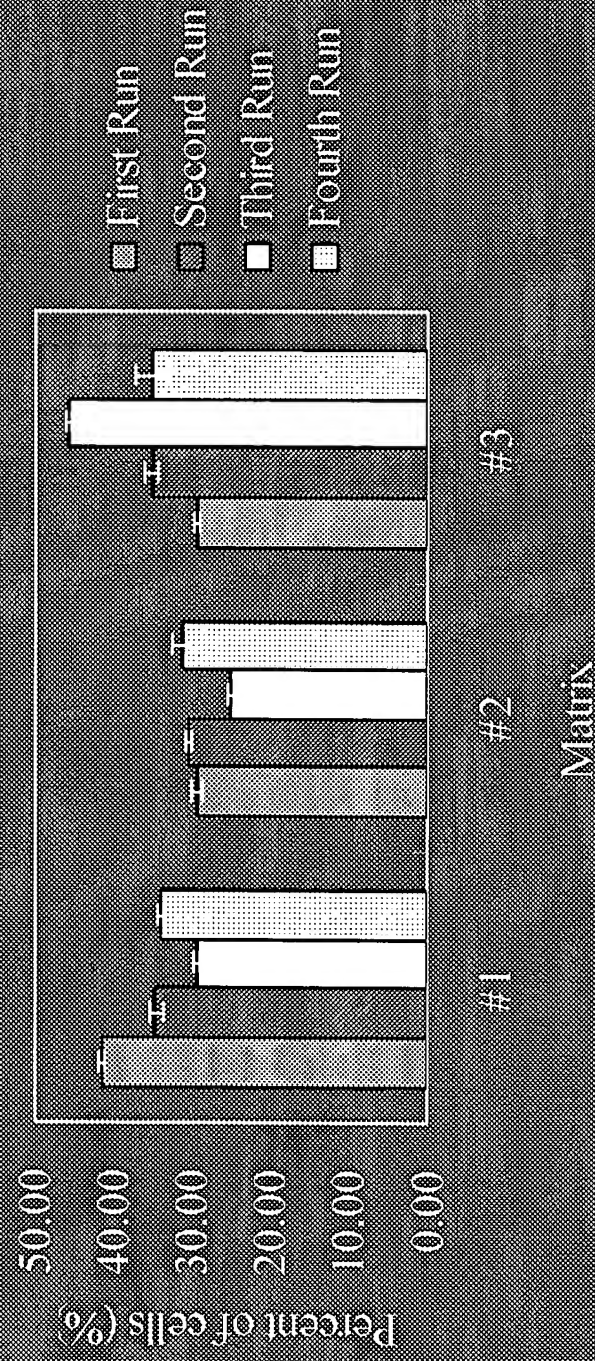


Fig. 10.

O_2 Consumption of MSCs in Perfusion Bioreactor System Culture at Ambient Oxygen Tension (Air + CO_2)

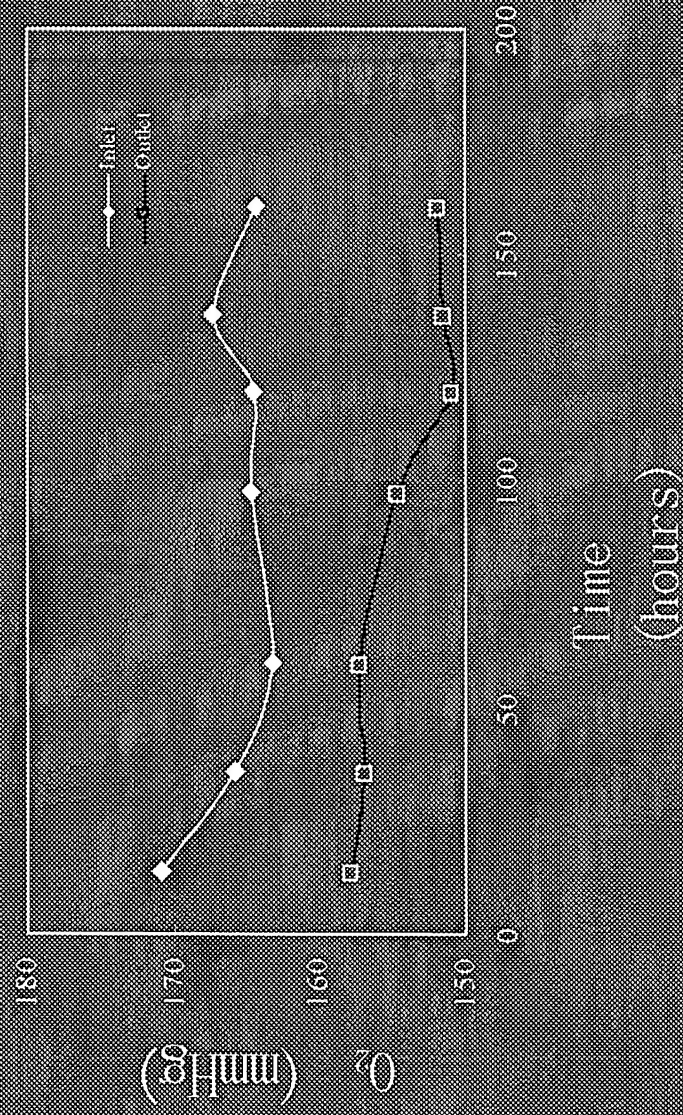
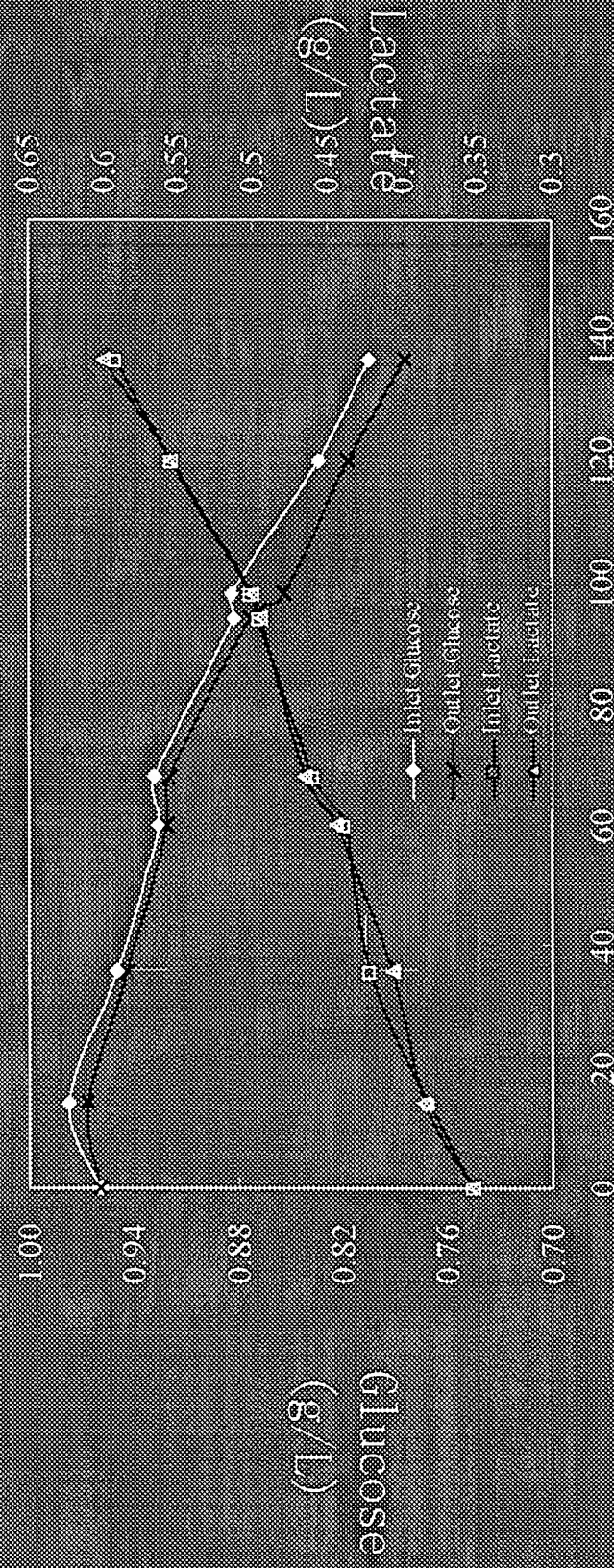


Fig. 11.

MSCs Metabolism in Perfusion Bioreactor System Culture at Ambient Oxygen Tension (Air + CO₂)



Time (hours)

Fig. 12.

LDH Level of MSCs in Perfusion Bioreactor System Culture at Ambient Oxygen Tension (Air + CO₂)

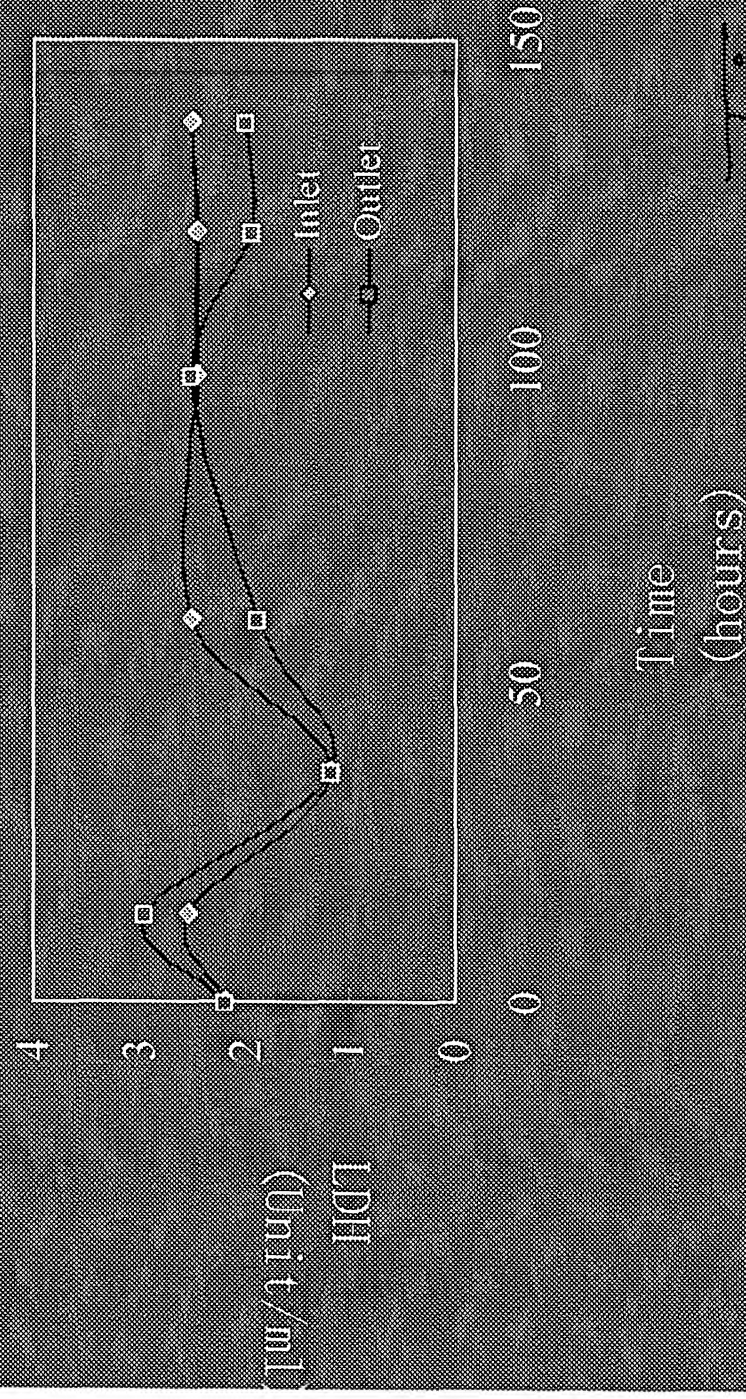


Fig. 13.